

Release notes for ENDF/B Development dec-083\_Bi\_194m1  
evaluation

**ENDF**  
**B-VII**.dev

October 13, 2016

- **fizcon** Warnings:

1. We don't know the energy of the isomer in question, FIZCON should just lighten up and let science progress  
*MAT=3154, MF= 1, MT=451 (1): Unknown ELIS*

```
ERROR(S) FOUND IN MAT=3154, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE
```

2. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.  
*MAT=3154, MF= 8, MT=457 (4): Missing spectra*

```
ERROR(S) FOUND IN MAT=3154, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
```

- **fizcon** Errors:

1. Spin should be  $\geq 0.0$   
*MAT=3154, MF= 8, MT=457 (1): Illegal spin (b)*

```
ERROR(S) FOUND IN MAT=3154, MF= 8, MT=457
NEGATIVE SPIN NOT ALLOWED
```

2. Spin should be integral or half integral  
*MAT=3154, MF= 8, MT=457 (2): Illegal spin (a)*

```
ERROR(S) FOUND IN MAT=3154, MF= 8, MT=457
SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL
```

3. Parity set to illegal value  
*MAT=3154, MF= 8, MT=457 (3): Bad parity*

```
ERROR(S) FOUND IN MAT=3154, MF= 8, MT=457
PARITY= 0.00000E+00 NOT +1.0 OR -1.0
```